## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/009164

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl<sup>7</sup> E03B11/14, E03B3/03, E03F1/00

According to International Patent Classification (IPC) or to both national classification and IPC

## FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) Int.Cl<sup>7</sup> E03B11/14, E03B3/03, E03F1/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2000-309958 A (Totetu Mfg. Co., Ltd.),	1-4
A	07 November, 2000 (07.11.00), Par. Nos. [0005], [0010], [0024]; Fig. 7	5-12
Y	JP 2002-115280 A (Shin'ichiro HAYASHI),	1-4
A	19 April, 2002 (19.04.02), Par. No. [0021]; Fig. 1	5-12
Y	JP 2001-107403 A (Shin'ichiro HAYASHI),	3,4
A	17 April, 2001 (17.04.01), Par. Nos. [0006], [0017]; Fig. 1	5-12
Y	JP 2001-98591 A (Takiron Co., Ltd.),	4
A	10 April, 2001 (10.04.01), Par. Nos. [0014], [0015]; Fig. 10	5-12
	1	

×	Further documents are listed in the continuation of Box C.	×	See patent family annex.		
	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand		
	document defining the general state of the art which is not considered to be of particular relevance		the principle or theory underlying the invention		
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			step when the document is taken alone		
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4	document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such documents, such combination		
	iment published prior to the international filing date but later than	<b>"</b> • •	being obvious to a person skilled in the art		
	the priority date claimed	"& <b>"</b>	document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report			
05 August, 2005 (05.08.05)		23 August, 2005 (23.08.05)			
Name and mailing address of the ISA/		Authorized officer			
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Form PCT/ISA/210 (continuation of second sheet) (January 2004)

INTERNATIONAL SEARC Information on patent family	International application No. PCT/JP2005/009164	
JP 2000-309958 A	2000.11.07	(Family: none)
JP 2002-115280 A	2002.04.19	(Family: none)
JP 2001-107403 A	2001.04.17	(Family: none)
JP 2001-98591 A	2001.04.10	(Family: none)
JP 2000-213015 A	2000.08.02	WO 2000/024974 A1 US 6382237 B1 AU 6228399 A AU 742729 B CN 1324423 A CA 2347416 A